

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

Claim 1 (currently amended): A compressed or uncompressed audio data feature description ~~method~~ scheme,

wherein audio features are hierarchically represented by setting ~~[[an]]~~ entire audio data ~~program~~ which corresponds to ~~means entire audio data constructing~~ one audio program at the highest hierarchy and describing the audio features in ~~[[a]]~~ order from higher to lower hierarchies.

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Claim 2 (currently amended): A compressed or uncompressed audio data feature description ~~method~~ scheme according to claim 1, wherein

said hierarchies are represented by one or more audio programs having a semantically continuous content and at least either an audio scene or an audio shot.

Claim 3 (currently amended): A compressed or uncompressed audio data feature description ~~method~~ scheme according to claim 1, wherein

said hierarchy is described by at least a ~~name of the hierarchy~~, hierarchy identifier and a feature which includes an audio ~~[[data]]~~ type, a feature type and ~~feature value which is~~

~~represented by~~ audio segment information classified according to the feature types.

Claim 4 (currently amended): A compressed or uncompressed audio data feature description ~~method~~ scheme according to claim 2, wherein

said hierarchy is described by at least a ~~name of the hierarchy~~, hierarchy identifier and a feature which includes an audio data type, a feature type and ~~feature value which is represented by~~ audio segment information classified according to the feature ~~[[type]]~~ types.

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Claim 5 (currently amended): A compressed or uncompressed audio feature description ~~method~~ scheme according to claim 3, wherein

said audio segment information ~~[[are]]~~ is described by any of a combination of start time ~~[[codes]]~~ code for start time and end time code, a combination of start time ~~[[codes]]~~ code for start time and duration, a combination of a start frame frame/sample number and an end frame frame/sample number, or a combination of start frame frame/sample number and number of frames frames/samples corresponding to duration.

Claim 6 (currently amended): A compressed or uncompressed audio data feature description ~~method~~ scheme according to claim 4, wherein

said audio segment information ~~[[are]]~~ is described by any of a combination of start time ~~[[codes]]~~ code for start time and end time code, a combination of start time ~~[[codes]]~~ code for start time and duration, a combination of start frame frame/sample number and an end frame frame/sample number, or a combination of start frame frame/sample number and number of frames frames/samples corresponding to duration.

Claim 7 (currently amended): A compressed or uncompressed audio data feature description ~~method~~ scheme, wherein

an audio feature ~~[[values]]~~ of ~~[[the]]~~ an audio program ~~[[are]]~~ is represented by an audio thumbnail indicating either one or more audio pieces or images;

the audio thumbnail is declared and described as ~~[[the]]~~ a feature type;

if the audio thumbnail is the audio pieces, ~~one or more audio~~ segment information of one or more audio pieces are described; and

if the audio thumbnail is the images, one or more file names of the images are described.

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Claim 8 (currently amended): A compressed or uncompressed audio data feature description ~~method~~ scheme, wherein

an audio feature ~~values~~ of at least one audio scene or ~~at least~~ one audio shot ~~[[are]]~~ is represented by an audio clip which is at least one audio piece having an arbitrary length equal to or shorter than that of the audio scene or the audio shot, respectively.

Claim 9 (currently amended): A compressed or uncompressed audio data feature description ~~method~~ scheme according to claim 8, wherein

at least one audio clip representing ~~characteristic of~~ said audio scenes or audio shots is represented as the key audio clip.

Claim 10 (currently amended): A compressed or uncompressed audio data feature description ~~method~~ scheme according to claim 9, wherein

the key audio clip is declared and described as a feature type;

if an audio [[data]] type of the key audio [[clip]] clips is voice, a voice representing ~~characteristic of~~ the key audio [[clip]] clips is represented as the key word and the content of the key word is described by [[text]] textual information; and
at least one audio segment corresponding to the key word is described.

Claim 11 (currently amended): A compressed or uncompressed audio feature description ~~method~~ scheme according to claim 9, wherein

the key audio clip is declared and described as a feature type;

if an audio data type of the key audio [[clip]] clips is music, a music representing ~~characteristic of~~ the key audio [[clip]] clips is represented as the [[a]] key note; and

at least one audio segment corresponding to the key note is described.

Claim 12 (currently amended): A compressed or uncompressed audio data feature description ~~method~~ scheme according to claim 9, wherein

the key audio clip is declared and described as a feature type;

if [[the]] an audio [[data]] type of the key audio [[clip]] clips is sound, a sound representing ~~characteristic of~~ the key audio [[clip]] clips is represented as the key sound; and

at least one audio segment corresponding to the key sound is described.

Claim 13 (currently amended): A compressed or uncompressed audio data feature description ~~method~~ scheme, wherein

if audio data consists of multiple channels or tracks, a representative channel or track of the audio data is represented as [[a]] the key stream;

the key stream is declared and described as a feature type; and

[[an]] at least one audio segment corresponding to the key stream is described.

Claim 14 (currently amended): A compressed or uncompressed audio data feature description ~~method~~ scheme, wherein

an audio clip [[data]] representing ~~a representative~~ an event in audio data is represented as the key event;

the key event is declared and described as a feature type;

a content of the key event is described by [[text]] textual information; and

at least one audio segment corresponding to the key event is described.

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Claim 15 (currently amended): A compressed or uncompressed audio data feature description ~~method~~ scheme, wherein

an audio [[data]] clip from a representative audio source in audio data is represented as the key object;

the key object is declared and described as a feature type;

a content of the key object is declared and described by [[text]] textual information; and

at least one audio segment corresponding to the key object is described.

Claim 16 (currently amended): A compressed or uncompressed audio data feature description ~~method~~ scheme, wherein

at least one introduction or representative audio piece of an audio program, an audio scene or an audio shot is represented as an audio segment;

a sequence of the audio segments is represented as an audio slide;
the audio slide is declared and described as a feature type; and
the audio segments ~~constructing~~ composing the audio slide are described.

Claim 17 (currently amended): A compressed or uncompressed audio data feature description ~~method~~ scheme, wherein

at least one introduction or representative audio piece of an audio program, an audio scene or an audio shot is saved as an audio file;

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a sequence of the audio files is represented as an audio slide;
the audio slide is declared and described as a feature type; and
file names of the audio files ~~constructing~~ composing the audio slide are described.

Claim 18 (currently amended): A compressed or uncompressed audio data feature description ~~method~~ scheme, wherein

if a feature type is ~~[[one]]~~ any of a shot, a key audio clip, a key word, a key note, or a key sound, value indicating level of the feature types is described; and

multiple audio data with said ~~for multiple~~ feature types are described hierarchically according to the level values.

Claim 19 (currently amended): A compressed or uncompressed audio video data feature description ~~collection construction method~~ collection description scheme, wherein

feature descriptions based on ~~multiple~~ various feature types are associated with ~~individual~~ each audio video programs;

the feature descriptions are extracted from multiple audio video programs based on a specific feature type;

a feature ~~description collection~~ collection description is constructed by using multiple extracted feature descriptions; and

the feature ~~description~~ collection description is described as a feature ~~description collection~~ collection description file.

Claim 20 (currently amended): A compressed or uncompressed audio video data feature ~~description collection construction method~~ collection description scheme according to claim 19, wherein

the feature type is a summary type;

summary descriptions associated with ~~the individual~~ each audio video programs are extracted from multiple audio video programs based on a specific summary type;

a summary collection is ~~constructed~~ aggregated using multiple extracted summary descriptions; and

the summary collection is described as a summary collection description file.

Claim 21 (currently amended): A compressed or uncompressed audio video data feature ~~description collection construction method~~ collection description scheme according to claim 19, wherein

as an element for describing the feature ~~description collection~~ collection description in the feature ~~description collection~~ collection description file, the feature types for ~~constructing the~~ feature collection descriptions and contents of the feature types are

described at a higher level; and

the audio video program identifiers ~~of the audio video programs~~ referred to by each feature description and ~~specification of~~ each corresponding segment information in the audio video programs are described.

Claim 22 (currently amended): A compressed or uncompressed audio video data feature ~~description collection construction method~~ collection description scheme according to claim 21, wherein

if the feature is a summary of audio video data, summary types for ~~constructing the~~ summary collection and contents of the summary types are described at a higher level as an element ~~elements~~ for describing the summary collection in the summary collection file;

the audio video program identifiers ~~of the audio video programs~~ referred to by each summary description and ~~specification of~~ each corresponding segment information ~~of each~~ summary in the audio video programs are described at a lower level.

Claim 23 (currently amended): A compressed or uncompressed audio video data feature ~~description collection construction method~~ collection description scheme according to claim 19, wherein

the feature types for ~~constructing the~~ feature ~~description collection~~ collection descriptions and contents of the feature types are described altogether in a nested structure, whereby the feature ~~description~~ collection can be ~~constructed and~~ described based on different feature types, or based on different contents ~~of feature types~~ among the same feature type.

Claim 24 (currently amended): A compressed or uncompressed audio video data feature ~~description collection construction method~~ collection description scheme according to claim 21, wherein

the feature types for ~~constructing the feature description collection~~ collection descriptions and contents of the feature types are described altogether in a nested structure, whereby the feature ~~description~~ collection can be ~~constructed and~~ described based on different feature types, or based on different contents of ~~feature types~~ among the same feature type.

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Claim 25 (currently amended): A compressed or uncompressed audio video data feature ~~description collection construction method~~ collection description scheme according to claim 20, wherein

the summary types for ~~constructing the summary collection~~ descriptions and contents of the summary types are described altogether in a nested structure, whereby the summary collection can be ~~constructed and~~ described based on different summary types, or based on different contents of ~~summary types~~ among the same summary type.

Claim 26 (currently amended): A compressed or uncompressed audio video data feature ~~description collection construction method~~ collection description scheme according to claim 22, wherein

the summary types for ~~constructing the summary collection~~ descriptions and contents of the summary types are described altogether in a nested structure, whereby the summary collection can be ~~constructed and~~ described based on different summary types or based on different contents of ~~summary types of~~ among the same summary type.